

## Actions needed by States

### HIGHWAY

#### Improve Child Occupant Protection

- Enact State laws requiring booster seats for young children.

#### Enact Primary Seat Belt Enforcement Laws

- Increase the number of people who wear seat belts through stronger enforcement laws.

#### Promote Youth Highway Safety

- Enact graduated driver licensing legislation.
- Restrict the number of teen passengers traveling with young novice drivers.
- Prohibit use of wireless communications devices by young novice drivers.

#### Eliminate Hard Core Drinking Driving

- Enact State legislation and take other actions that are proven to reduce crashes involving those who repeatedly drink large amounts of alcohol and drive including:
  - Frequent, statewide sobriety checkpoints.
  - Legislation to create stricter sanctions for those arrested the first time with a high blood alcohol concentration of 0.15 or higher.
  - Zero blood alcohol requirement for convicted DWI offenders when they get their license back.
  - Administrative rather than court-based license revocation for refusing to take or failing the sobriety test.
  - Vehicle sanctions for DWI offenders.
  - Eliminate plea-bargaining DWI offenses and programs that divert offenders and purge the offense record.
  - Retain DWI records for at least 10 years to identify and prosecute repeat offenders.
  - Develop and operate special sanction court-based programs for hard core DWI offenders.

#### Improve School Bus/Grade Crossing Safety

- Install stop signs at passive crossings.
- Upgrade school bus railroad crossings that only have warning signs to crossings with lights and gates.
- Install switches on new buses that allow drivers to turn off radios and other devices that mask the sound of train warning horns.
- Enhance bus driver training and evaluation.
- Include grade crossing questions on commercial driver's license exams.

### MARINE

#### Enhance Recreational Boating Safety

- Require mandatory education of boat operators.
- Require use of life jackets by children.
- Require safety instruction prior to personal watercraft rental.

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# NTSB MOST WANTED Transportation Safety Improvements

# 2007


*Critical changes needed to reduce  
transportation accidents and save lives.*

# NTSB MOST WANTED


## **AVIATION:** The Federal Aviation Administration should act to:

-  **Reduce Dangers to Aircraft Flying in Icing Conditions**
  - Use current research on freezing rain and large water droplets to revise the way aircraft are designed and approved for flight in icing conditions.
  - Conduct additional research with NASA to identify realistic ice accumulation and incorporate new information into aircraft certification and pilot training requirements.
-  **Eliminate Flammable Fuel/Air Vapors in Fuel Tanks on Transport Category Aircraft**
  - Implement design changes to eliminate the vulnerabilities of flammable fuel/air vapors in all transport category aircraft.
-  **Stop Runway Incursions/Ground Collisions of Aircraft**
  - Give immediate warnings of probable collisions/incursions directly to flight crews in the cockpit.
-  **Improve Audio and Data Recorders/Require Video Recorders**
  - Require cockpit voice recorders to retain at least 2 hours of audio.
  - Require back-up power sources so cockpit voice recorders collect an extra 10 minutes of data when an aircraft's main power fails.
  - Install video recorders in cockpits to give investigators more information to solve complex accidents.
  - Install dual combination recorders.
  - Expand parameters recorded on Boeing 737 airplanes.
-  **Reduce Accidents and Incidents Caused by Human Fatigue**
  - Set working hour limits for flight crews and aviation mechanics based on fatigue research, circadian rhythms, and sleep and rest requirements.
-  **Improve Crew Resource Management**
  - Require commuter and on-demand air taxi flight crews to receive crew resource management training.




## **RAILROAD:** The Federal Railroad Administration should act to:

-  **Implement Positive Train Control Systems**
  - Prevent train collisions and overspeed accidents by requiring automatic control systems to override mistakes by human operators.

## **PIPELINE:** The Pipeline and Hazardous Materials Safety Administration should act to:

-  **Reduce Accidents and Incidents Caused by Human Fatigue**
  - Set working hour limits for pipeline controllers based on fatigue research, circadian rhythms, and sleep and rest requirements.



## NTSB CLASSIFICATION

-  Unacceptable response
-  Acceptable response, progressing slowly
-  Acceptable response, progressing in a timely manner



## Actions needed by Federal Agencies

### **HIGHWAY:**

#### **The Federal Motor Carrier Safety Administration should act to:**


-  **Improve the Safety of Motor Carrier Operations**
  - Prevent motor carriers from operating if they put vehicles with mechanical problems on the road or unqualified drivers behind the wheel.
-  **Prevent Medically Unqualified Drivers from Operating Commercial Vehicles**
  - Establish a comprehensive medical oversight program for interstate commercial drivers.
  - Ensure that examiners are qualified and know what to look for.
  - Track all medical certificate applications.
  - Enhance oversight and enforcement of invalid certificates.
  - Provide mechanisms for reporting medical conditions.

#### **The National Highway Traffic Safety Administration should act to:**

-  **Enhance Protection for Motorcoach Passengers**
  - Redesign motorcoach window emergency exits so passengers can easily open them.
  - Issue standards for stronger bus roofs and require them in new motorcoaches.
  - Devise new standards to protect motorcoach passengers from being thrown out of their seats or ejected when a bus sustains a front, side, or rear impact or rolls over.
-  **Enhance Protection for School Bus Passengers**
  - Devise new standards to protect school bus passengers from being thrown out of their seats or ejected when a school bus sustains a front, side, or rear impact or rolls over.


### **MARINE:**

#### **The U.S. Coast Guard should act to:**

-  **Reduce Accidents and Incidents Caused by Human Fatigue**
  - Set working hour limits for mariners based on fatigue research, circadian rhythms, and sleep and rest requirements.

### **INTERMODAL:**

#### **The U.S. Department of Transportation should act to:**

-  **Reduce Accidents and Incidents Caused by Human Fatigue**
  - Set working hour limits for transportation operators based on fatigue research, circadian rhythms, and sleep and rest requirements.



**National Transportation Safety Board**  
490 L' Enfant Plaza, SW • Washington, DC 20594  
(202) 314.6000 • <http://www.nts.gov>